# Arizona's Instrument to Measure Standards (AIMS)

Grade 4

Writing, Reading, and Mathematics

**Released Items** 

January 7, 2008

As part of Superintendent Tom Horne's ongoing efforts to improve the communication of academic expectations, the Arizona Department of Education is releasing AIMS DPA Grades 3 through 8 writing, reading, and mathematics items to the public. This release is intended to provide students, parents, teachers, and the community with specific examples of the types of skills being assessed on the AIMS tests. The release begins with writing, followed by reading and mathematics, similar to the AIMS tests.

Included in this release is a previous writing prompt and directions used in the AIMS assessments. Following the writing prompt section are a reading passage, directions, and the items associated with the passage in the form of a mini-test. This passage and related items are from the 2005 and 2007 AIMS administrations. At the conclusion of the reading section, the individual items are presented again with the correct answers and statistical information about each item.

The final section consists of ten mathematics items from the 2006 and 2007 AIMS administrations in the form of a mini-test. At the conclusion of the mathematics section, the individual items are presented again with the correct answers and statistical information about each item.

The statistical information includes:

- 1) item identification number;
- 2) correct answer;
- 3) response probability (P-Value), which represents the percentage of students who answered the question correctly;
- 4) Rasch difficulty, which measures the difficulty of the item on a scale in which -3 indicates a very easy item and +3 indicates an extremely difficult item; and
- 5) performance objective that the item aligns to in the 2003 standards.

The items are reproductions of the actual items as they appeared on the AIMS tests. If you have any questions, please contact Frank Brashear, Director of Test & Item Development, at (602) 542-5031.



# WRITING

# Writing

#### **Directions:**

Read the writing prompt below. Use the next page for your prewriting and planning. Then write your draft on pages 6 and 7.

One day you go to your favorite toy store. When you walk in the door, you see a sign that reads, "FREE TOYS! Any toy in the store is Free."

Write a story about what happens next.

## Your writing should:

- describe the setting
- include important details
- · have a beginning, a middle, and an end
- be fun for others to read

Remember to edit for spelling, grammar, punctuation, and capitalization.

Go On 📂

# WRITING

**DIRECTIONS:** 

Use the prewriting and planning space below for notes, lists, webs, outlines, and anything else that might help you plan your writing.

# **Prewriting and Planning**





Write your draft on the following lines. Refer to the writing prompt and your prewriting and planning space as you write your draft.

Draft	

Go On

# **Draft**

Go On

## **DIRECTIONS:**

Now you are going to revise your draft. Read your draft, then use the questions in the Writer's Checklist as a guide to make your changes. Check each box if you can answer "yes" to that question.

### Writer's Checklist

Are my ideas clear?

Does my writing have words that make it interesting?

Does my writing have a clear beginning, middle, and ending?

Does my writing sound right and make sense?

Did I edit for capital letters?

Did I edit for correct punctuation?

Did I edit for correct spelling?

If you left any box in the checklist blank, think about ways to make your writing better.

## **DIRECTIONS:**

For each box you did not check, make a change on your draft. Then write your final version in your Test Book /Answer Document.



# READING

# **Directions:**

#### Read the passage. Then answer Numbers 1 through 10.

LEXILE: 640L

# **Nothing in Common**

Danita stood in the middle of the long chicken house. The afternoon sun beat down on the tin roof, and the fresh wood chips on the floor seemed to soak up the heat. She looked toward one end of the building at all the feed boxes that she had filled with feed.

"We're getting baby chicks tomorrow," Dad had said at lunch, looking at Danita and her brother. "And you know what that means for the rest of the day."

It meant a lot of work—for her. She looked toward all the empty feed boxes at the other end of the chicken house. Where was Lon? Probably gone again to the bathroom. Sweat ran into her eyes, and her hands hurt from gripping the bucket handles.

"If you get done early enough," Dad had told her, "you can stay overnight with your cousins in town."

Danita liked Ruth and Shelby. They were nice, but they were city girls who lived in a fancy house. Their parents owned a restaurant, so her cousins probably sat around eating French fries, drinking chocolate shakes, and playing card games.

That night, when Dad dropped Danita off at Uncle Fett's restaurant, there was only one car in the parking lot.

"Why are we stopping here?" Danita asked.

"This is where your cousins are," Dad said. He kissed her goodbye and said, "I'm sure you'll be a big help."

The restaurant door was open, but inside everything looked different. The booths and tables were pushed together along the walls, and the big, bare floor stood empty. Danita knew Uncle Fett and Aunt Myra ran a restaurant, but she didn't know about this.

At the far end of the room stood two mop buckets full of soapy water. Between those buckets, Ruth and Shelby were down on their knees, scrubbing the floor tiles with big hand brushes. Uncle Fett was standing on a ladder, dusting the blades of a ceiling fan. They were all working so hard that they didn't even see her.

Just then Aunt Myra came from the kitchen carrying another mop bucket. "Danita!" she said. "Are we ever glad to see you!" She smiled and waved her arm at the room. "You caught us cleaning. We have to shut down every couple of months and do this."

"I disagree. It seems more like every couple of weeks," Ruth said. She and Shelby stood up. Their jeans were wet, and their faces were streaked with sweat.

"Did you work today?" Shelby asked.

Danita nodded, but she no longer felt so sorry for herself.

Uncle Fett stepped off the ladder and came toward her. "We wanted to have this done before you got here," he said, "but it's a big job. The girls have to scrub every single tile, and they're only half done."

Every tile! Danita stared at the floor. There had to be hundreds of them—far more than there were feed troughs in the chicken house.

"Your dad says you're a good worker," Uncle Fett said. "If you don't mind giving us a hand here, we'll be done in no time."

Danita looked first at her cousins and then at her aunt and uncle. "I don't mind at all," she said, grabbing the nearest brush.

She meant what she said. Helping such hard workers was an honor.

# **1.** What is the main problem in "Nothing in Common"?

- A Danita feels sorry for herself.
- **B** Danita has to take care of the chicks.
- **C** Danita wants to live with her cousins.
- **D** Danita wants to drink chocolate shakes.

# 2. Which event changed Danita's opinion of her life?

- **A** She saw all the tiles that her cousins had to clean.
- **B** She asked her dad about stopping at the restaurant.
- **C** She looked for her brother to help feed the chickens.
- **D** She thought about her aunt and uncle owning a restaurant.

Go On

3.	What is a	synonym	for the	word	scrub?
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- **A** build
- **B** clean
- **C** plant
- **D** wrap

**4.** In "Nothing in Common," who thought that helping hard workers was an honor?

- **A** Dad
- **B** Ruth
- **C** Danita
- **D** Shelby

**5.** Adding <u>dis-</u> to the word <u>agree</u> makes a new word that means

- A agree with
- **B** agree before
- **C** cause to agree
- **D** opposite of agree

6.	Who is	s the	major	character	in	"Nothing	in	Common"	?
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- A Dad
- **B** Danita
- **C** Ruth
- **D** Shelby

# 7. How did Danita help Ruth and Shelby?

- A She held the ladder.
- **B** She pushed the tables.
- **C** She scrubbed the floor.
- **D** She dusted the ceiling fans.

# **8.** Where did Danita help Ruth and Shelby?

- **A** in the bathroom
- **B** in the restaurant
- **C** in the parking lot
- **D** in the chicken house

- 9. Which sentence tells the reader about Danita at the end of the passage?
  - A She didn't like eating chicken.
  - **B** She didn't want to help her father.
  - C She didn't want to play card games.
  - **D** She didn't mind helping her cousins.

- 10. Vhat did Danita think about her cousins at the end of "Nothing In Common"?
  - A She thought that they were spoiled.
  - B She thought that they did not work.
  - C She thought that they liked chickens.
  - **D** She thought that they were hard workers.



Item				]	Reading Ite	m Data					
1	Item Number	3300910	Correct Answer	A	P-Value	.56	Equated Rasch Value	0.8043			
	2003 Readii	ng Standard	Alignmen	nt is S	Strand $2-6$	Concept 1	– Performance Objectiv	re 1			
	W	hat is the m	ain proble	m in	"Nothing i	n Commor	า"?				
	A Danita feels sorry for herself.										
	<b>B</b> Danita has to take care of the chicks.										
	С	Danita war	nts to live w	ith he	er cousins.						
	D	Danita war	nts to drink	choco	olate shakes.						
2	Item	3300906	Compost		Reading Ite P-Value		Equated Decale Value	0.3276			
<b>4</b>	Number	3300906	Correct Answer	A	P-value	.64	Equated Rasch Value	0.3276			
	2003 Readii	ng Standard	Alignmen	nt is S	Strand <b>2</b> – <b>0</b>	Concept 1	– Performance Objectiv	re <b>2</b>			
	\//	nich event ch	anged Day	oito's	oninion of	har lifa?					
					•						
	Α _				cousins had t						
	В				oping at the						
	C				help feed th						
	D	Sne though	t about ner	aunt	and uncle ov	vning a rest	aurant.				
					Reading Ite	em Data					
3	Item Number	3300904	Correct Answer	В	P-Value	.83	Equated Rasch Value	-0.9677			
	2003 Readii	ng Standard	Alignmen	nt is S	Strand $1 - 0$	Concept 4	- Performance Objectiv	re <b>6</b>			
	WI	hat is a syno	nym for th	e woı	rd <u>scrub</u> ?						
	Α	build									
	В	clean									
	С	plant									
	D	wrap									

					Reading Ite	em Data		
4	Item Number	3300915	Correct Answer	C	P-Value	.70	Equated Rasch Value	-0.0116
	2003 Readii	ng Standard	l Align mei	nt is	Strand 2 – C	Concept 1	- Performance Objectiv	re 5
		_	in Commo	n," v	vho thought	t that help	ing hard workers was an h	nonor?
		<b>A</b> Dad						
		<b>B</b> Ruth						
		<b>C</b> Danita						
		<b>D</b> Shelby						
Item					Reading Ite	m Data		
5	Item	3300905	Correct	D	P-Value	.78	Equated Rasch Value	-0.6130
J	Number	3300703	Answer	D	1 value	.70	Equated Rasen Value	0.0150
	2003 Readin	ng Standard	l Align mei	nt is S	Strand $1 - 0$	Concept 4	<ul> <li>Performance Objective</li> </ul>	re 1
							Lat.	
		Adding <u>dis</u>	· to the wo	rd <u>a</u>	gree makes	a new wo	ord that means	
		<b>A</b> agree w	rith					
		<b>B</b> agree b	efore					
		<b>C</b> cause to	agree					
		<b>D</b> opposite	e of agree					
					D 1' L	D (		
6	Item	3300914	Correct	В	Reading Ite P-Value	.78	Equated Rasch Value	-0.6371
v	Number	350071	Answer		l varac	., 0	Equated Hasen value	0.0571
	2003 Readin	ng Standaro	l Align mei	nt is S	Strand $2-6$	Concept 1	<ul> <li>Performance Objective</li> </ul>	re <b>4</b>
	,	Who is the	maior char	acte	r in "Nothir	na in Com	mon"?	
			major chai	acto	i iii Wotiiii	ig in com		
		<b>A</b> Dad						
		<b>B</b> Danita						
		<b>C</b> Ruth						
		<b>D</b> Shelby						

Tem   Number   2003 Reading Standard Alignment is Strand 1 - Concept 6 - Performance Objective 6   Number   2003 Reading Standard Alignment is Strand 1 - Concept 6 - Performance Objective 6   Number   Reading Item Data						Reading It	em Data					
How did Danita help Ruth and Shelby?  A She held the ladder.  B She pushed the tables.  C She scrubbed the floor.  D She dusted the ceiling fans.  Reading Item Data  Item   3300918   Correct   B   P-Value   .72   Equated Rasch Value   -0.1631   2003 Reading Standard Align ment is Strand 2 - Concept 1 - Performance Objective 7   Where did Danita help Ruth and Shelby?  A in the bathroom  B in the restaurant  C in the parking lot  D in the chicken house  Reading Item Data  Reading Item Data  P-Value   .81   Equated Rasch Value   -0.8432   Number   .3300916   Correct   D   P-Value   .81   Equated Rasch Value   -0.8432   2003 Reading Standard Align ment is Strand 2 - Concept 1 - Performance Objective 5   Which sentence tells the reader about Danita at the end of the passage?  A She didn't like eating chicken.  B She didn't want to help her father.  C She didn't want to play card games.	7		3300911		С	P-Value	.76	Equated Rasch Value	-0.4435			
A She held the ladder.  B She pushed the tables. C She scrubbed the floor. D She dusted the ceiling fans.  Reading Item Data  Item Number   3300918   Correct   B   P-Value   .72   Equated Rasch Value   -0.1631    Where did Danita help Ruth and Shelby?  A in the bathroom B in the restaurant C in the parking lot D in the chicken house  Reading Item Data    Tree   Number   3300916   Correct   D   P-Value   .81   Equated Rasch Value   -0.8432		2003 Readin	ng Standard	Alignme	nt is	Strand $1 - 0$	Concept 6	– Performance Objectiv	ve <b>6</b>			
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Reading Item Data  Item Number   3300918   Correct Answer   B   P-Value   .72   Equated Rasch Value   -0.1631    Where did Danita help Ruth and Shelby?  A in the bathroom B in the restaurant C in the parking lot D in the chicken house  Reading Item Data  Item Number   3300916   Correct Answer   D   P-Value   .81   Equated Rasch Value   -0.8432    Item Number   2003 Reading Standard Align ment is Strand 2 - Concept 1 - Performance Objective 5    Which sentence tells the reader about Danita at the end of the passage?  A She didn't like eating chicken. B She didn't want to help her father. C She didn't want to play card games.		<b>B</b> She pushed the tables.										
Reading Item Data    Item   Number   3300918   Correct   Answer   B   P-Value   .72   Equated Rasch Value   -0.1631     2003 Reading Standard Align ment is Strand 2 - Concept 1 - Performance Objective 7			<b>c</b> She scru	ubbed the	floor							
Standard   Standard			<b>D</b> She dus	sted the ce	iling	fans.						
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A in the bathroom B in the restaurant C in the parking lot D in the chicken house  Reading Item Data  Item Number   3300916   Correct   D   P-Value   .81   Equated Rasch Value   -0.8432    2003 Reading Standard Alignment is Strand 2 - Concept 1 - Performance Objective 5    Which sentence tells the reader about Danita at the end of the passage?  A She didn't like eating chicken. B She didn't want to help her father. C She didn't want to play card games.		2003 Readir	ng Standard	Alignme	nt is	Strand 2 – 0	Concept 1	l – Performance Objectiv	ve <b>7</b>			
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B in the restaurant C in the parking lot D in the chicken house  Reading Item Data  Item Number   3300916   Correct   D   P-Value   .81   Equated Rasch Value   -0.8432    2003 Reading Standard Alignment is Strand 2 - Concept 1 - Performance Objective 5   She didn't like eating chicken.  B She didn't want to help her father. C She didn't want to play card games.		\	Where did	Danita he	lp Ri	uth and She	elby?					
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Performance Objective 5  Which sentence tells the reader about Danita at the end of the passage?  A She didn't like eating chicken.  B She didn't want to help her father.  C She didn't want to play card games.			<b>B</b> in the re	estaurant								
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She didn't want to play card games.   S1   Equated Rasch Value   -0.8432   -0.8432		ı	<b>D</b> in the cl	hicken hou	ıse							
She didn't want to play card games.   S1   Equated Rasch Value   -0.8432   -0.8432						D 11 T						
Number   Answer   2003 Reading Standard Alignment is Strand 2 – Concept 1 – Performance Objective 5   Which sentence tells the reader about Danita at the end of the passage?  A She didn't like eating chicken.  B She didn't want to help her father.  C She didn't want to play card games.	9	Item	3300916	Correct	D			Equated Rasch Value	-0.8432			
Which sentence tells the reader about Danita at the end of the passage?  A She didn't like eating chicken.  B She didn't want to help her father.  C She didn't want to play card games.								_1				
A She didn't like eating chicken.  B She didn't want to help her father.  C She didn't want to play card games.		2003 Readin	ng Standard	Alignme	nt is	Strand $2-6$	Concept 1	l – Performance Objectiv	ve <b>5</b>			
A She didn't like eating chicken.  B She didn't want to help her father.  C She didn't want to play card games.		,,	41-1-1					-1.111-6.11	2			
B She didn't want to help her father. C She didn't want to play card games.		V					it Danita	at the end of the passa	ge?			
C She didn't want to play card games.		A			_							
		В										
<b>D</b> She didn't mind helping her cousins.		C										
		D	She didn	't mind he	lping	her cousins						

				Reading It	em Data		
Item 3	3300909	Correct	D	P-Value	.75	Equated Rasch Value	-0.4038
Number		Answer					
2003 Reading	Standard	Alignmen	nt is S	Strand 1 – (	Concept 6	– Performance Objectiv	ve <b>6</b>
Wh	nat did Da	nita think	abo	ut her cous	ins at the	end of "Nothing In Co	mmon"?
Wh A B	She thou	ght that th	ey we	out her cous ere spoiled. d not work.	ins at the	end of "Nothing In Co	mmon"?
Α	She thou	ght that th ght that th	ey we	ere spoiled.		end of "Nothing In Co	mmon"?

# MATHEMATICS

# Mathematics ———

**DIRECTIONS:** Read each question and choose the best answer.

1. What is the solution to the following?

- 310
- 684 В
- 3,420
- 3,440

- 2. Mr. Dern's students collected between 30 and 40 newspapers for recycling each week. Which of these could be the total number of newspapers Mr. Dern's students collected in 10 weeks?
  - A 260
  - 360
  - 460
  - D 760

**3.** The chart below shows the choices Petra has for places to go on Saturday and the ways she can travel there.

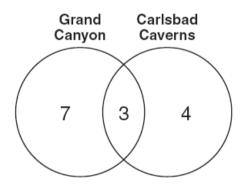
Petra's Choices

Place	Way of Travel
Park	Bicycle
Lake	Walk
	Skateboard

What is the total number of different combinations of 1 place and 1 way of travel that can be made?

- **A** 2
- **B** 5
- **C** 6
- **D** 9

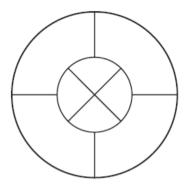
**4.** The Venn diagram below shows the number of students in a class who have visited the Grand Canyon, Carlsbad Caverns, or both.



What is the total number of students who have visited the Grand Canyon?

- **A** 3
- **B** 7
- **C** 10
- **D** 14

**5.** Sharon is making a piece of jewelry for her friend's birthday. She will place colored stones in a necklace following the pattern shown below.



Sharon does not want any stones of the same color to share a common edge. What is the **least** number of colors Sharon can use?

- **A** 3
- **B** 4
- **c** 5
- **D** 6

**6.** What is the value of the following when N = 8?

$$23 \times N = ?$$

- **A** 31
- **B** 44
- **C** 164
- **D** 184

**7.** Lindsay has eight more stickers than Whitney.

W represents the number of stickers Whitney has.

Which expression represents the number of stickers Lindsay has?

- **A** W 8
- **B** W + 8
- **c** *W* × 8
- **D**  $W \div 8$

**8.** Margaret left school at 3:40 p.m. She arrived home at the time shown on the clock below.

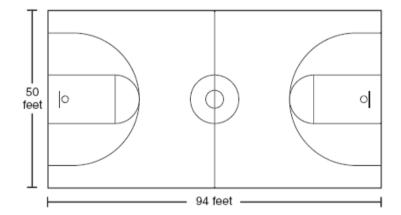


How long did it take Margaret to get home from school?

- A 20 minutes
- **B** 25 minutes
- **C** 30 minutes
- **D** 35 minutes

- **9.** During batting practice, Sammy hit a ball 63 feet and Kyle hit a ball 89 feet. How much farther did Kyle hit the ball than Sammy?
  - 6 feet
  - 6 feet
  - 2 feet
  - 2 feet

10. The basketball court pictured below is 94 feet long and 50 feet wide.



\hbigh of the following represents the perimeter of the basketball court?

- 0 + 94
- $0 \times 94$
- 0 + 2 + 94 + 2
- 0 + 50 + 94 + 94



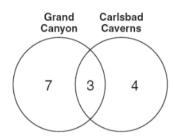
Item				M	athematics	Item Data	ı	
	Item	3281940	Correct	С	P-Value	.59	Equated Rasch Value	0.6495
1 1	Number		Answer					
-	2003 Mathe	ematics Standa	rd Alignm	ent is	Strand 1 –	Concept 2	2 – Performance Objectiv	ve 5
					_			· · · · · ·
	Wh	at is the solutio	n to the foll	owing	g?			
					76			
					× 45			
	Α	310						
	В	684						
		3,420						
		•						
	D	3,440						
			Г		1		T	
	Item	3281984	Correct	В	P-Value	.43	Equated Rasch Value	1.4913
2	Number	,; G, 1	Answer	<u> </u>	C4	C / /	7 Danfanna - Obia - Ci	1
	2003 Mathe	ematics Standa	ird Alignm	ent is	Strand I –	Concept.	3 – Performance Objectiv	ve I
	M	Down's students	ما اممخمماالمم	_+	20 and 40		formaniling	
		Dern's students week. Which o					ror recycling spapers Mr. Dern's	
		lents collected i			erro co car rrain		spapers in it beins	
	Α	260						
		360						
	_	460						
	_							
	D	760						
	Item	3308924	Correct	С	P-Value	.48	Equated Rasch Value	1.1621
3	Number	3300724	Answer		1 - varue	.40	Equated Rasen value	1.1021
3		∟ ematics Standa		ent is	Strand 2 –	Concept :	3 – Performance Objectiv	ve 1
						_		
		chart below show vays she can traw		s Petr	a has for place	s to go on S	aturday and	
		vays sire carr crav						
					Choices			
			Plac	$\overline{}$	ay of Travel			
			Parl Lak	-	Bicycle Walk			
				_	Skateboard			
		t is the total nun el that can be ma		rent c	ombinations o	f 1 place and	d 1 way of	
	<b>A</b> 2	!						
	<b>B</b> 5							
	<b>c</b> 6							
	<b>D</b> 9							
	<b>D</b> 9	,						

4

Item   32	282015	Correct	P-Value	.42	Equated Rasch Value	1.394	1
Number		Answer					

2003 Mathematics Standard Alignment is Strand 2 – Concept 1 – Performance Objective 4

The Venn diagram below shows the number of students in a class who have visited the Grand Canyon, Carlsbad Caverns, or both.



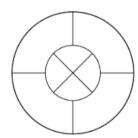
What is the total number of students who have visited the Grand Canyon?

- Α 3
- **B** 7
- **c** 10
- **D** 14

5

Item	3308933	Correct	В	P-Value	.55	Equated Rasch Value	1.1021			
Number		Answer				_				
2003 Mathematics Standard Alignment is Strand 2 – Concept 4 – Performance Objective 1										

Sharon is making a piece of jewelry for her friend's birthday. She will place colored stones in a necklace following the pattern shown below.



Sharon does not want any stones of the same color to share a common edge. What is the **least** number of colors Sharon can use?

- Α :
- **B** 4
- **c** 5
- **D** 6

6 | Item Number | 3308964 | Correct | D | P-Value | .56 | Equated Rasch Value | 0.5387 | Answer | D | P-Value | .56 | Equated Rasch Value | 0.5387 | Control of the control

2003 Mathematics Standard Alignment is Strand 3 – Concept 3 – Performance Objective 1

What is the value of the following when N = 8?

 $23 \times N = ?$ 

- **A** 31
- **B** 44
- **c** 164
- **D** 184

7 | Item Number | 3308966 | Correct | B | P-Value | .55 | Equated Rasch Value | 1.1516 | Number | 2003 Mathematics Standard Alignment is Strand 3 - Concept 3 - Performance Objective 2

Lindsay has eight more stickers than Whitney.

W represents the number of stickers Whitney has.

Which expression represents the number of stickers Lindsay has?

- **A** W 8
- **B** W + 8
- **c** *W* × 8
- **D** W ÷ 8

8 | Item | 3309009 | Correct | C | P-Value | .58 | Equated Rasch Value | 0.7396 | Number | 2003 Mathematics Standard Alignment is Strand 4 - Concept 4 - Performance Objective 2

Margaret left school at 3:40 p.m. She arrived home at the time shown on the clock below.



How long did it take Margaret to get home from school?

- A 20 minutes
- B 25 minutes
- c 30 minutes
- D 35 minutes

9 Item 3281938 Correct A P-Value .74 Equated Rasch Value -0.0729
Number Answer Street 1 Correct 2 Performance Objection 4

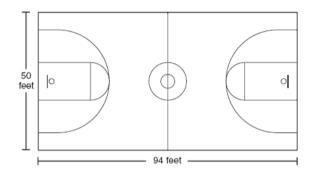
2003 Mathematics Standard Alignment is Strand 1 - Concept 2 - Performance Objective 4

During batting practice, Sammy hit a ball 63 feet and Kyle hit a ball 89 feet. How much farther did Kyle hit the ball than Sammy?

- Α
- В
- c
- D

10 Item 3309095 Correct D P-Value .58 Equated Rasch Value 0.8679
Number 2003 Mathematics Standard Alignment is Strand 5 – Concept 1 – Performance Objective 2

The basketball court pictured below is 94 feet long and 50 feet wide.



Which of the following represents the **perimeter** of the basketball court?

- A 50 + 94
- **B** 50 × 94
- **c** 50 + 2 + 94 + 2
- **D** 50 + 50 + 94 + 94